

ARCHITECT'S MANUAL

BUILT-UP ROOFS



THE RICHARDSON ROOFING COMPANY

DIVISION OF THE FLINTKOTE COMPANY

NEW YORK, N. Y.	BOSTON, MASS.	CHICAGO, ILL.
NEW ORLEANS, LA.	CINCINNATI, OHIO	
ATLANTA, GA.	DALLAS, TEX.	

Manufacturers of Roofing for a Quarter Century

A quarter of a century's successful experience as one of the foremost manufacturers of roofing products is an indisputable guarantee, not only of the product but of the integrity and practical knowledge of the company who manufacture it.

THE FLINTKOTE COMPANY has been successful because they have always been progressive—eagerly anticipating every forward step in the betterment of their products and the accompanying service to architects, engineers and builders. Toward this end THE FLINTKOTE COMPANY maintains a large force of chemists and engineers whose constant duty is to test and improve Flintkote Roofing



Products, and make them constantly better than before. All the quality elements which an actively advancing science and technology are developing are constantly being incorporated in Flintkote products. Enterprising and far-seeing manufacturers are producing vastly superior goods by intelligently studying their processes and adopting methods which produce a uniform product of highest standard.

Eight factories from coast to coast, financial resources, large production, and the most modern equipment and methods, all contribute to the excellence of Flintkote products and service.

ENGINEERING SERVICES

Flintkote Sales Engineers are prepared to furnish definite recommendations as to the correct type of roof to be used with your construction. Their recommendations are based on a thorough background of experience, both from the practical and engineering standpoints of waterproofing.

THE FLINTKOTE COMPANY also maintains a corps of specially trained and experienced roofing engineers at the main offices in Boston, Mass. Any special problem may be referred to them for prompt and thorough investigation and solution.

Much time and money will be saved if roofing work is planned in advance. For example, when property lines interfere, it is necessary to build the wall against the roofing membrane, the membrane being held directly against the brick or concrete which has been built first. Proper planning will often eliminate unnecessary expenditures, and will prevent interference with subsequent roofing work.

Waterproofing cannot be expected to correct poor or faulty construction. It is simply a means of preventing water from entering a structure and it does this by throwing the water to properly placed outlets and drains. Hence the structure should be designed to help accomplish this end most effectively.

When you specify a Richardson Built-up Roof, you can be assured of two things:

First, a pliant, durable, adhesive, waterproofing bitumen, free from destructive elements and absolutely impervious to water.

Second, a felt foundation which, in spite of severe weathering, will hold this bitumen in place.

These, together, fulfill the basic requirements for permanent roofing.

To meet the various problems of a particular roofing installation, architects, engineers, builders and owners are invited to avail themselves of the Company's facilities for information and service.

A FEW REPRESENTATIVE JOBS HAVING RICHARDSON ROOFING

Maine Seaboard Paper Co., Bucksport, Me.
White Mountain Freezer Co., Nashua, N. H.
Shell Eastern Petroleum Products Corp., New Haven, Conn.
South Adams Saving Bank, Adams, Mass.
Clarke University, Atlanta, Ga.
Public Service Electric & Gas Co., Orange, N. J.
Lapp Insulator Co., Leroy, N. Y.
Auburn Motor Car Co., Connersville, Ind.
Belknap Hardware Co., Louisville, Ky.
State Hospital, Columbia, S. C.
Broughton School, Broughton, Pa.
Municipal Building, Green Bay, Wis.
Beaumont Baseball Club Park, Beaumont, Tex.
Wolverine Tube Co., Detroit, Mich.
State Normal School, Normal, Ala.
Shanden Baptist Church, Columbia, S. C.
Pacific Ice Co., Ft. Worth, Tex.
Mart High School, Mart, Tex.
Fifth Avenue Bus Co., New York, N. Y.
Lincoln Dixie Theatre, Chicago, Ill.
Ohio Savings Bank & Trust Co., Toledo, Ohio
Loews Palace Theatre, Indianapolis, Ind.
The Lampton Co., Columbia, Miss.

Anaconda Wire Cable Co., Anderson, Ind.
Toledo Trans Continental Airport, Toledo, Ohio
Municipal Airport, Blackwell, Okla.
Chamber of Commerce Building, Indianapolis, Ind.
Ohio State Armory, Toledo, Ohio
Meridian Fertilizer Co., Bossier City, La.
Shell Eastern Petroleum Products Corp., Providence, R. I.
Kansas City Railways Co. Barns, Kansas City, Mo.
Roosevelt Hotel, addition, New Orleans, La.
Theodore Ahrens Trade School, Louisville, Ky.
Canal Bank & Trust Co. Building, New Orleans, La.
Shortridge High School, Indianapolis, Ind.
Wilmington Compress & Warehouse Co., Wilmington, N. C.
Swift & Co. Packing Plant, Montgomery, Ala.
Calhoun County Courthouse, Morgan, Ga.
Senator Owen's Building, Muskogee, Okla.
The Boston Store Building, Schenectady, N. Y.
Beaumont Baseball Park, Beaumont, Tex.
McClaren Garage, Detroit, Mich.
Toledo Ice & Coal Co., Toledo, Ohio
The Johnson Building, Huntington, W. Va.
Mangal Body Plant, Louisville, Ky.

FLINTKOTE ROOFING POLICY AND MATERIALS

Richardson Built-up Roofs are built up on the structure, layer by layer, of materials best suited for the construction. These materials are our own products, and are manufactured under close supervision.

Because of the complete control of manufacture of Viskalt Compound and Richardson Felt-Viskalt Saturated, we are able to furnish the same high grade material, identical in all respects, from all of our shipping points. This uniformity makes it a safe product to specify in any part of the country.

The application of Richardson Built-up Roofs is a very important feature. Richardson Bonded Built-up Roofs are applied by experienced and thoroughly trained roofers, under the supervision of qualified inspectors. This insures you of obtaining a roof built to exact specifications and construction as authorized by the Richardson Roofing Company.

Cost

The Richardson Roofing Company Division of The Flintkote Company recognizes the fact that there are many different classes of buildings for which good roofs are in demand but that for many of these, first cost cannot be allowed to mount too high, either because the construction of the building is of a type that does not warrant a roof of high first cost, or because the cost is in excess of money allotted, or because the intended life of the building is too short. In line with this thought the Richardson Specifications have been made complete, by incorporating the following types of construction:

- (1) Richardson Smooth Surfaced Asphalt Roofs
 - (2) Richardson Gravel or Slag Surfaced Asphalt Roofs
 - (3) Richardson Mineral Surfaced Asphalt Roofs
 - (4) Richardson Coal Tar Felt and Pitch Roofs
- All of the above roofs will be bonded if desired.

What Is the Best Roof?

Because roofs must withstand a variety of exposure conditions, the Richardson Built-up Specifications on the following pages have been prepared to meet the conditions as far as possible, to which each roof will be subjected.

Before a recommendation is made, certain definite data should be obtained. The following questions should be answered intelligently to permit real practical service:

What is the roof deck going to be—concrete, tile, gypsum or wood sheathing?

What kind of flashing is to be used?

What is the pitch of the roof?

What temperature conditions must the roof stand?

What atmospheric conditions must the roof stand?

Will the roof be subjected to acid conditions, smoke, gas or cinders?

With this information, the specification that will best suit the conditions can be selected. A roof which may be best for an office building, will not be suitable for an industrial building where the incline is greater than two inches to the foot.



RICHARDSON BONDED ROOFS AND FRANCHISED ROOFERS

Richardson Built-up Roofs when applied in strict accordance with printed specifications, and under the supervision of the Inspection Service will be bonded if desired. Depending upon the type of roofing used and upon the conditions, these bonds run for periods of ten, fifteen and twenty years. In connection with the bonding of these built-up roofs, a periodic inspection service is also supplied.

Richardson Roofs will be bonded for every type of construction, whether flat or steep, regardless of the pitch of any section of the roof area. No limitations are placed on bonding roofs of any considerable pitch.

The new Richardson policy further recognizes the fact that the flashings are a critical point of a roof, and have, therefore, decided to issue a "Flashing Endorsement," which, when issued, becomes a part of the "Bond" itself. This feature covers a period of ten years and is issued under the same conditions as the Bond.

All Richardson Built-up Roofs will be laid only by

Roofing Contractors approved and franchised by the Richardson Roofing Company. These Contractors have been selected because they possess the requirements of business reliability, thorough experience and careful workmanship to fulfill the Richardson Roofing Specifications. Roofing laid by Richardson Franchise Roofing Contractors gives assurance of satisfactory workmanship and the complete following of the printed specifications.

In regard to bonded built-up roofs, The Richardson Roofing Company stresses the point that the Felt-Viskalt Saturated and the Viskalt Compound called for in the following specifications are made to very exacting formulæ and are, in the opinion of THE FLINTKOTE COMPANY, the best material that it is possible to produce. They are, therefore, specified for all Bonded Roofs. These products are sold at established prices, regardless of whether a bond is furnished or not. All charges for the bond itself is on a "per square" basis, being separate and distinct from the cost of the materials.

VISKALT ROOFING COMPOUND

Its Importance as the Waterproofing Agent of Built-up Roofs

Scientific investigation has uncovered facts which put the selection of roofing and waterproofing materials on an entirely new basis. A knowledge of these facts will help you to make your future roofing and waterproofing construction more permanent.

According to the science of roof construction, the two basic materials needed to make a permanent roof, are as follows:

(1) A pliant, durable, adhesive, waterproofing bitumen free from destructive elements and absolutely impervious to water.

(2) A felt foundation which, in spite of severe weatherproofing, will permanently hold this bitumen fast to the roof.

In the past, not enough effort was made to develop the waterproofing agent, the bitumen, to fit its particular job. Even though the most capable architect planned and the best engineer applied a theoretically correct system of waterproofing, both of these men would confess that they knew little or nothing about the actual waterproofing agent, the bitumen.

With these facts in mind, the Richardson Research Laboratories concentrated its years of scientific experience to solve the difficulty. The result was Viskalt—a blend of waterproofing bitumen more efficient than had ever been devised.

The Underlying Chemistry of Viskalt

In all waterproofing bitumens, there are certain essential constituents. Up to a few years ago, these were thought to be the backbone of bitumen. Consequently all bitumens were considered alike and no one really knew why, for example, some roofs outlasted others.

But now research has proved that in asphaltic bitumen are certain constituents which, if not properly proportioned, destroy its waterproofing value. Thus the cause of a leaky roof might chemically be explained as follows:

The newly discovered elements tend to break down the waterproofing film and let in the water.

Many asphalts, it is now known, contain high percentages of these harmful elements. Viskalt, on the other hand, is derived from asphaltums which contain a smaller percentage of these harmful properties.

Viskalt is a firm, adhesive waterproofing bitumen and as such fulfills the first basic requirement of permanent waterproofing—a continuous, unbroken layer, absolutely impervious to water.

Every modern structure requires a certain amount

of flexibility in each part so as to care for strains and stresses due to wind pressure, ground movement, unusual loads, seasoning, etc. In the past much damage has been done to otherwise excellent structures because the waterproofing cracked and broke down under strain.

Firm—Yet Pliant Under Stress

This all important fact is due to the usual small content of ingredients that evaporate at sun or working temperatures, causing brittleness and subsequent crackings.

Viskalt, when maintained for five hours at a temperature of 325° F. shows an evaporation of less than 1/2 of 1% and still remains pliant.

Ordinary bitumens crack or crumble when subject to tension or pressure. But Viskalt, as shown by the ductility test, is internally knitted together to resist such strains.

Without the aid of a fluxing agent, ordinary bitumens are not highly adhesive. Viskalt, however, as proved by actual use, binds itself fast both to the felt and to the structure.

Ordinary bitumens are extremely brittle at even 40° F. and flow at summer temperatures. Viskalt, on the contrary, being only slightly susceptible to such ranges of temperature, remains firm yet *pliant under stress*.

Whether your job for Viskalt be on the roof or in the foundation, you may feel absolutely confident that it will remain a continuous, unbroken layer, absolutely impervious to water.

Viskalt Specifications

Melting point (ball and ring)—167° to 175° F.
Penetration at 32° F. (0° C.) 200 gr. 60 sec.—18.
Penetration at 77° F. (25° C.) 100 gr. 5 sec.—35.
Penetration at 115° F. (46° C.) 50 gr. 5 sec.—110.
Ductility at 77° F.—5 cm. (not less than).
Purity (solubility in carbon bisulphite)—99 1/2% (not less than).

Flash point (open cup) 465° F. (not less than).

Weight—approximately 8.7 lb. per gal.

Furnished in 10 gal. containers. Covering capacity approximately 30 lb. (or 3 gal.) per 100 sq. ft.

Viskalt Roofing Compound is manufactured in our refineries, of Asphalt and Asphalt Flux, so tempered as to overcome brittleness and yet retain its weather resisting qualities. Our specifications are rigid and assure the production of a product which meets the most exacting of roofing requirements.

OTHER RICHARDSON ROOFING PRODUCTS

Description of Products Used in Richardson Built-up Roofs

Rex Construction

The use of this product eliminates entirely the handling of gravel or slag for surfacing, and materially reduces the amount of Viskalt to be heated and applied. 17 in. of the width of the sheet is Viskalt Saturated Felt, Viskalt coated and mineral surfaced, and

the other 19 in. of the width of the sheet is bare felt, Viskalt Saturated, provided for the cementing of sheet to sheet in the application.

This roofing is furnished in rolls 36 in. wide, 108 sq. ft. each and weigh approximately 50 lb. Sufficient material in each roll to complete one-half square of surface.

RICHARDSON ROOFING PRODUCTS (Continued)

Available in green, blue-black, and red mineral surfacing. Can also be furnished with chrome yellow and other colored surfacings at a small additional cost. Especially recommended for airport construction.

Richardson Special Base Sheet

The use of this product eliminates the use of a 30-lb. Saturated Felt in built-up roof construction, and insures a better base sheet construction. This product is manufactured with a backing of bare saturated felt, the other side coated and surfaced with talc. Furnished in rolls 36 in. wide, 216 sq. ft. each and weighing approximately 68 lb. Richardson Special Base Sheet is recommended for use in the construction of built-up roofs for application over wood surfaces, for

use under slate and tile roofing and for temporary roof coverings.

Copperclad Flashing

Richardson Copperclad Flashing is a preformed flashing material consisting of laminations of Richardson Felt, Viskalt Saturated and Copper, bonded together at the factory with an especially blended and refined bitumen. On account of the elasticity, strength and extreme flexibility of Richardson Copperclad Flashing, it will conform readily and bond securely with hot Viskalt to parapet walls. The danger of cracks and breaks found in ordinary flashing material as a result of misuse, settling of building or movement of roof decks is materially reduced.

SELECTING THE PROPER ROOF FINISH

Conditions Determining the Proper Type of Roofing to Use

In selecting the proper roof finish, the determining factors are as follows:

(1) Base on which roof is to be laid—(Concrete, gypsum, wood, etc.).

(2) Quality of roof—(20-year, 15-year, 10-year, 5-year).

(3) Pitch—(Limitation of type of roof).

(4) Finish—(Smooth, crushed slate, slag, gravel).

CONDENSED CHART AND INDEX OF SPECIFICATIONS—RICHARDSON BUILT-UP ROOFS

Period of guarantee	Specification No.	Page No.	Limitations of roof pitch	Finish
Standard Specifications Non-combustible Roofs (Concrete, Gypsum, etc.)				
20 yr.	A-1-C	5	None.....	Smooth
20 yr.	A-2-C	6	Up to 6 in. to 1 ft.....	Crushed slate
20 yr.	A-3-C	7	Up to 3 in. to 1 ft.....	Slag or gravel
20 yr.	A-4-C	..	1 in. to 1 ft.....	Tar and slag
15 yr.	B-1-C	5	None.....	Smooth
15 yr.	B-3-C	7	Up to 3 in. to 1 ft.....	Slag or gravel
10 yr.	C-1-C	8	None.....	Smooth
10 yr.	C-1a-C	9	Up to 3 in. to 1 ft.....	Smooth
10 yr.	C-2-C	10	Up to 6 in. to 1 ft.....	Crushed slate
10 yr.	C-3-C	11	Up to 3 in. to 1 ft.....	Slag or gravel
10 yr.	C-4-C	..	Up to 1 in. to 1 ft.....	Tar and slag

Standard Specifications Wood Roofs

20 yr.	A-1-W	12	None.....	Smooth
20 yr.	A-2-W	13	Up to 6 in. to 1 ft.....	Crushed slate
20 yr.	A-3-W	14	Up to 3 in. to 1 ft.....	Slag or gravel
20 yr.	A-4-W	..	Up to 2 in. to 1 ft.....	Tar and slag
15 yr.	B-1-W	12	None.....	Smooth
15 yr.	B-3-W	14	Not over 4 in. to 1 ft.....	Slag or gravel
10 yr.	C-1-W	15	None.....	Smooth
10 yr.	C-2-W	16	Up to 6 in. to 1 ft.....	Crushed slate
10 yr.	C-3-W	17	Up to 4 in. to 1 ft.....	Slag or gravel
10 yr.	C-4-W	..	Up to 2 in. to 1 ft.....	Tar and slag
5 yr.	D-1-W	15	None.....	Smooth

Standard Specifications Steel Roofs*

20 yr.	A-1-S	19	None.....	Smooth
20 yr.	A-3-S	..	3 in. to 1 ft.....	Slag or gravel
10 yr.	C-1-S	18	None.....	Smooth
10 yr.	C-3-S	..	3 in. to 1 ft.....	Slag or gravel
5 yr.	D-1-S	..	None.....	Smooth

*Special specifications for use with insulation will be sent upon request.

Standard Specifications Over Rigid Insulation, Cork, Celotex, Insulite, Maftex, etc.

20 yr.	A-1-I	20	None.....	Smooth
20 yr.	A-2-I	..	None.....	Crushed slate
20 yr.	A-3-I	..	3 in. to 1 ft.....	Slag or gravel
10 yr.	C-1-I	19	None.....	Smooth
10 yr.	C-2-I	..	None.....	Crushed slate
10 yr.	C-3-I	..	3 in. to 1 ft.....	Slag or gravel

For Richardson Copperclad Flashing Construction, see page 21.

CONCRETE OR POURED GYPSUM DECKS

20-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Viskalt Finish

SUPER-VISKALT BUILT-UP ROOF—SPECIFICATION A-1-C

Description of Materials

Primer—The priming coat shall be Viskalt Concrete Primer.

Felt—The five layers of felt shall be Richardson Felt-Viskalt Saturated, weighing about 15 lb. per 108 sq. ft.

Bitumen—The Bitumen shall be Viskalt Roofing Compound delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F, uniformly mopped. For each mopping, use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The concrete shall be swept clean and free from all debris. All rough spots shall be smoothed, and all low spots filled to insure proper bond.

Second—A thorough coating of Viskalt Concrete Primer shall be applied and sufficient time (12 to 24 hours) given for it to thoroughly penetrate.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound five layers of Richardson Felt-Viskalt Saturated, lapping each layer 29½ in. over the preceding layer, mopping between the laps a heavy coating of Viskalt Roofing Compound so that in no case shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a heavy and final coating of Viskalt Roofing Compound, forming a complete homogeneous mass.

Flashings, Flanges, etc.

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connecting to roofing shall be set in hot Viskalt Roofing Compound on top of at least five plies of felt nailed and double felt stripped, felt strips to be not less than double the width of the metal flange

and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutter by the use of an additional layer of Richardson Felt, Viskalt Saturated, finishing the surface as outlined for final coating.

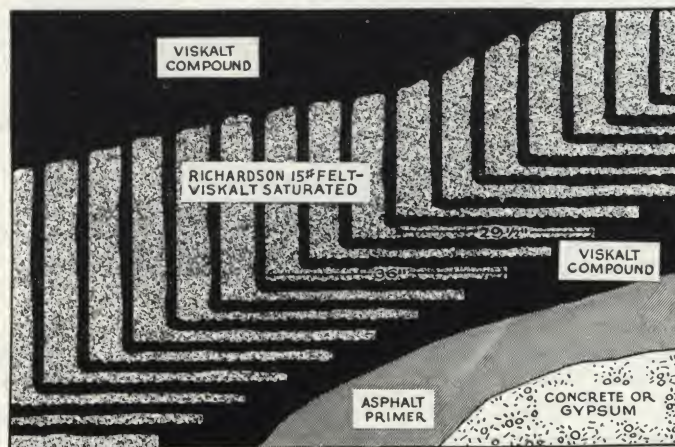
Note: The above specification is adaptable for decks constructed of cement tile, book tile, precast gypsum slabs and similar monolithic construction. In case of poured and precast gypsum, all felts shall be securely nailed along the back of each sheet as a precautionary measure to insure satisfactory results. When poured concrete, cement tile, or book tile is used on surfaces over 2 inches to the foot, proper nailing facilities should be incorporated in the roof deck.

Bill of Materials Per Square

Concrete Primer (1 gal.).....	9 lb.
Six moppings Viskalt Roofing Compound (18 gal.)....	162 lb.
Five layers Richardson 15-lb. Felt-Viskalt Saturated....	75 lb.
Weight of Completed Roof.....	246 lb.

Bond

If a Richardson Twenty-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



15-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Viskalt Finish

VISKALT BUILT-UP ROOF—SPECIFICATION B-1-C

Specification B-1-C is the same as Specification A-1-C above, with the following exceptions:

"Felt" paragraph is changed to read "The four layers of felt," etc

Paragraph **"Fourth"** under **"Method of Construction"** is changed to read, "Embed in the hot Viskalt Roofing Compound four layers of Viskalt Richardson Felt-Viskalt Saturated, lapping each layer 27½ in.," etc.

Fifth line under **"Flashings, Flanges, Etc."** should be

changed to "... on top of at least four plies of felt ..." etc.

"Bill of Materials Per Square" should be changed to the following:

Concrete Primer (1 gal.).....	9 lb.
Five moppings Viskalt Roofing Compound (15 gal.)....	135 lb.
Four layers Richardson 15-lb. Felt-Viskalt Saturated....	60 lb.
Weight of completed roof.....	204 lb.

"Bond" will be the same except **"Fifteen-Year"** will be substituted for **"Twenty-Year."**

CONCRETE OR POURED GYPSUM DECKS

20-year Roof—Inclines Up to 6 In. to 1 Ft.—Crushed Slate Finish

SUPER-REX CONSTRUCTION BUILT-UP ROOFS—SPECIFICATION A-2-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felt—The three layers of felt shall be Richardson Felt-Viskalt Saturated, weighing about 15 lb. per 108 sq. ft.

Cap Sheets—The two layers of cap sheets shall be Rex Construction Roofing, 36 in. wide, of which 17 in. is mineral surfaced and the other 19 in. is bare felt to provide a proper nailing and bonding surface. Weight approximately 100 lb. per 100 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., and uniformly mopped. For each mopping, use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by overheating.

Method of Construction

First—The concrete shall be swept clean and free from all debris. All rough spots shall be smoothed, and all low spots shall be filled to insure proper bond.

Second—A thorough coating of Asphalt Concrete Primer shall be applied, and sufficient time (12 to 24 hours) given for it to thoroughly penetrate.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound three layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each layer 24½ in. over the preceding layer, mopping between the laps a heavy coating of Viskalt Roofing Compound, so that in no case shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Sixth—Embed in the hot Viskalt Roofing Compound at right angles to the eaves and ridges a starting sheet of asphalt felt 19 in. wide cut from the selvage side of the Rex Construction Roofing, this sheet to be securely held in place by nails fastened to nailing strips provided by contractor in roof deck at ridge.

Seventh—Mop the full width of the 19-in. selvage sheet with hot Viskalt Roofing Compound, and while-hot lay the first full course, using a full width 36-in. sheet of Rex Construction Roofing, the mineral edge flush with and parallel to the starting line. Roll down securely to insure a positive bond between the felt and the compound. Each sheet of Rex Construction Roofing should be securely anchored by nailing to the strip provided at the ridge, or high point of roof by contractor. When laps are necessary they shall be overlapped at least 6 in. and carefully cemented together.

Eighth—Mop the full width of the 19-in. selvage side with Viskalt Roofing

Compound, into which, while hot, embed a second sheet of Rex Construction Roofing, nailing as described and continue with subsequent sheets until roof is completed. Care should be taken not to spill compound on mineral surface of Rex Construction Roofing. This is absolutely essential, as discoloration of the mineral surface destroys the real effect of the roof.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Viskalt Roofing Compound on top of at least three plies of felt and under the Rex Construction Roofing and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt, Viskalt Saturated, finishing the surface as outlined for final coating.

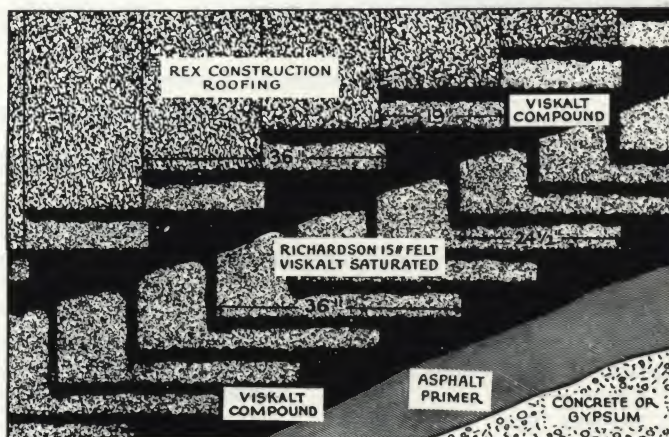
Note: This specification is adaptable for roofs up to 6 in. to the foot and is not recommended for roofs having an incline under 1 in. to the foot. Rex Construction Roofing can be run parallel to the incline of the roof. Furnished in red, green and blue-black Mineral Surfacing.

Bill of Materials Per Square

Asphalt Concrete Primer.....	9 lb.
Three layers Richardson 15-lb. Felt-Viskalt Saturated..	45 lb.
One layer Rex Construction Roofing.....	100 lb.
Five layers Viskalt Roofing Compound.....	130 lb.
Weight of complete roof.....	284 lb.

Bond

If a Richardson Twenty-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



CONCRETE OR POURED GYPSUM DECKS

20-year Roof—Inclines Not Exceeding 3 In. to 1 Ft.—Slag or Gravel

SUPER-RICHARDSON BUILT-UP ROOFS—SPECIFICATION A-3-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felt—The four layers of felt shall be Richardson Felt-Viskalt Saturated, weighing about 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Richardson Flex-A-Tile Asphalt, heated to a temperature of not over 360° F., uniformly mopped. For each mopping use 30 lb. per 100 sq. ft.

Surfacing Material—The surfacing material shall be gravel or slag. 400 lb. of gravel or 300 lb. of slag, from 1/4 to 3/8 in. in size shall be used for each 100 sq. ft. of surfacing. It shall be dry and free from dirt.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by overheating.

Method of Construction

First—The concrete shall be swept clean and free from all debris. All rough spots shall be smoothed and all low spots filled to insure proper bond.

Second—A thorough coating of Asphalt Concrete Primer shall be applied and sufficient time (12 to 24 hours) given for it to thoroughly penetrate.

Third—Over the primed surface, apply a thorough coating of hot Richardson Flex-A-Tile Asphalt, using approximately 40 lb. per 100 sq. ft.

Fourth—Embed in the hot Richardson Flex-A-Tile Asphalt four layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each layer 27 1/2 in. over the preceding layer, mopping between the laps a heavy coating of Richardson Flex-A-Tile Asphalt, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Pour from a dipper a uniform coating of Richardson Flex-A-Tile Asphalt, using approximately 50 lb. per 100 sq. ft., into which, while hot, embed 400 lb. of gravel or 300 lb. of slag.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings or edgings which are

connected with the roofing shall be set in hot Richardson Flex-A-Tile Asphalt on top of at least four plies of felt, nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Richardson Flex-A-Tile Asphalt.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Richardson Flex-A-Tile Asphalt.

Valleys and Gutters

Reinforce all valleys and gutters by use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surface as outlined for final coating.

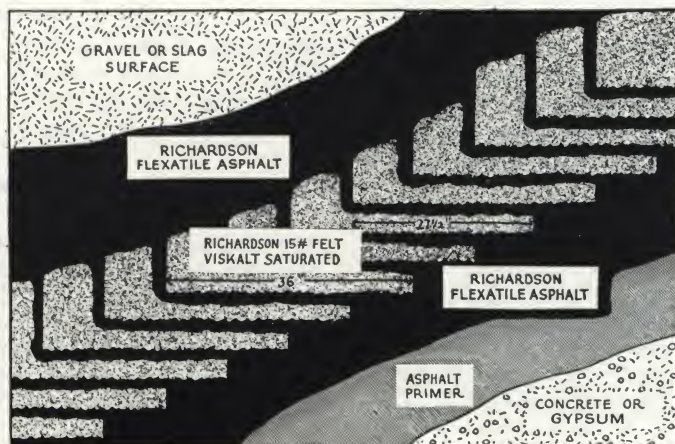
Bill of Materials Per Square

Asphalt Concrete Primer.....	9 lb.
Four layers Richardson 15-lb. Felt-Viskalt Saturated....	60 lb.
Five layers Richardson Flex-A-Tile Asphalt.....	180 lb.
Gravel	400 lb.

Weight of completed roof.....649 lb.

Bond

If a Richardson Twenty-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary, such cuts to be made before the gravel or slag is applied. Such bonds will be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



15-year Roof—Inclines Not Exceeding 3 In. to 1 Ft.—Slag or Gravel

MEDIUM-RICHARDSON BUILT-UP ROOFS—SPECIFICATION B-3-C

Specification B-3-C is the same as A-3-C with the following exceptions:

The paragraph "Felt" should be changed to read:

"There shall be used one layer of Richardson Felt-Viskalt Saturated, weighing not less than 30 lb. per 108 sq. ft., and two layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft."

Under "Method of Construction" insert in place of the "Third" and "Fourth" paragraphs the following:

"Third—Cover the entire surface with a layer of Richardson 30-lb. Felt-Viskalt Saturated, lapping each sheet not less than 2 in. over the preceding sheet, nailing every 6 in. along the laps, and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are solidly seated and not driven between the boards.

"Fourth—Mop the entire surface with a uniform and thorough coating of Richardson Flex-A-Tile Asphalt, using approximately 30 lb. per 100 sq. ft.

"Fifth—Embed into the hot Richardson Flex-A-Tile

Asphalt two layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each layer 17 in. over the preceding layer, mopping between the laps a heavy coating of Richardson Flex-A-Tile Asphalt, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane."

Change the "Fifth" paragraph of Specification A-3-C to "Sixth."

Change the fifth line under the heading "Base and Counter Flashings" to read "... on top of at least three plies of felt ..."

"Bill of Materials Per Square" should be changed to:

Asphalt Concrete Primer.....	9 lbs.
One layer Richardson 30-lb. Felt-Viskalt Saturated....	30 lb.
Two layers Richardson 15-lb. Felt-Viskalt Saturated....	30 lb.
Four layers Richardson Flex-A-Tile Asphalt.....	140 lb.
Gravel	400 lb.

Weight of completed roof.....609 lb.

"Bond" will be the same except "Fifteen-year" will be substituted for "Twenty-year."

CONCRETE OR POURED GYPSUM DECKS

10-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Viskalt Finish

STANDARD VISKALT BUILT-UP ROOFS—SPECIFICATION C-1-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felt—There shall be used three layers of Richardson Felt-Viskalt Saturated, weighing approximately 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped. For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The concrete slab shall be swept clean and free from all debris. All rough spots shall be smoothed and all low parts properly filled to insure adhesion.

Second—A thorough coating of Asphalt Concrete Primer shall be applied by a brush and sufficient time (12 to 24 hours) given for it to thoroughly penetrate the surface.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound three layers of Richardson 15 lb. Felt-Viskalt Saturated, lapping each layer 24½ in. over preceding one, mopping between each sheet a thorough coating of Viskalt Roofing Compound, so that in no place shall felt touch felt, and forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly cover the entire surface with a uniform and final coating of Viskalt Roofing Compound, uniformly mopped.

Note: When application is intended over concrete decks where slope exceeds 2 in. to the foot, suitable means for nailing must be provided.

When application is to be over gypsum roof decks application is to be made as over concrete, nailing each sheet in addition thereto 6 in. from the upper edge; nails to be spaced not more than 2 ft. apart and shall not be longer than ¾ in. and driven through flat tin discs.

Abbreviated Specification—10 year roof.

Roofing to be Richardson Standard Viskalt Roof.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to the roofing shall be set in hot Viskalt Roofing Compound on top of three plies of felt, nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

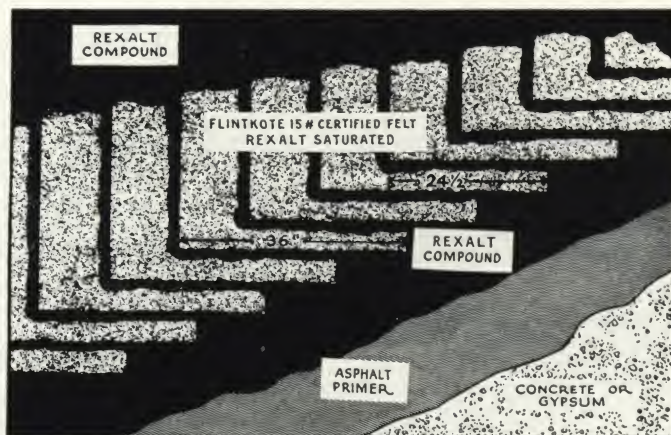
Bill of Materials Per Square

Three layers Richardson 15 lb. Felt-Viskalt Saturated...	45 lb.
Four layers Viskalt Roofing Compound (12 gal.).....	108 lb.
One coating Asphalt Concrete Primer (1 gal.).....	9 lb.

Weight of completed roof.....162 lb

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is applied by a Richardson Franchise Roofer and in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



Specification C-1-C—Applied in accordance with manufacturer's complete specifications for use over concrete or gypsum decks.

CONCRETE OR POURED GYPSUM DECKS

10-year Roofs—Inclines Up to 3 In. to 1 Ft.—Smooth Viskalt Finish

STANDARD VISKALT BUILT-UP ROOFS—SPECIFICATION C-1A-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felt—There shall be used one layer of Richardson Felt-Viskalt Saturated, weighing not less than 30 lb. per 108 sq. ft., and two layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound heated to a temperature or not more than 375° F., uniformly mopped. For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The concrete slab shall be swept clean and free from all debris. All rough spots shall be smoothed and all low parts properly filled to insure adhesion.

Second—A thorough coating of Viskalt Concrete Primer shall be applied by a brush and sufficient time (12 to 24 hours) given for it to thoroughly penetrate the surface.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound one layer of Richardson 30 lb. Felt-Viskalt Saturated, lapping each sheet 2 in. over preceding one.

Fifth—Mop the surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Sixth—Embed in the hot Viskalt Roofing Compound two layers of Richardson 15 lb. Felt-Viskalt Saturated, lapping each sheet 19 in. over preceding one, mopping between the sheets a heavy coating of Viskalt Roofing Compound, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Seventh—Thoroughly mop the entire surface with a uniform coating of Viskalt Roofing Compound, forming a complete homogeneous mass.

Flashings, Flanges, etc.

All flashings shall be constructed in accordance with Richardson Special Specifications.

All metal flanges, flashings and edgings which are connected to the roofing shall be set in hot Viskalt Roofing Compound on top of at least four plies of felt, nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surface as outlined for final coating.

Note: The above specification is adaptable for decks constructed of cement tile, book tile, precast gypsum slabs and similar monolithic construction. In case of poured and precast gypsum, all felts shall be securely nailed along the back of each sheet as a precautionary measure to insure satisfactory results. When poured concrete, cement tile or book tile is used on surfaces over two (2) in. to the foot, proper nailing facilities should be incorporated in the roof deck.

Bill of Materials Per Square

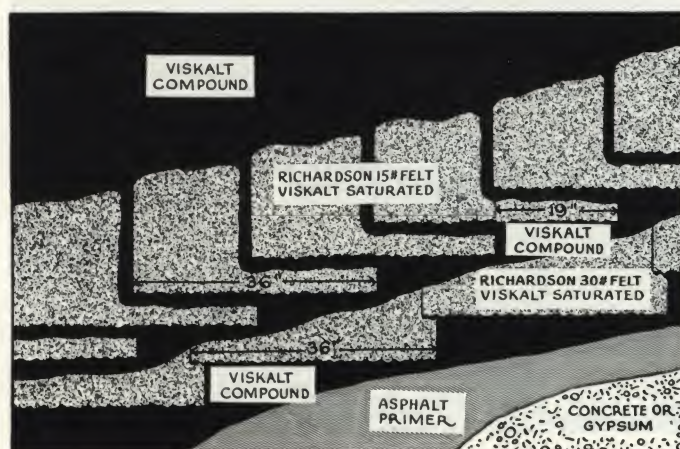
One gallon Viskalt Concrete Primer.....	9 lb.
One layer Richardson 30 lb. Felt-Viskalt Saturated.....	30 lb.
Two layers Richardson 15 lb. Felt-Viskalt Saturated....	30 lb.
Twelve gallons Viskalt Roofing Compound.....	108 lb.

Weight of completed roof.....177 lb.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. These cuts to be made before the gravel or slag is applied. Such bonds shall be given only when the roof is laid by an approved Richardson Franchise Roofer and in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof for a period of ten years.

Note: This specification particularly adapted to winter laying, where weather conditions do not permit entire completion of roof, but is essential to thoroughly waterproof the deck to permit



completion of interior construction.

Simply apply the 30-lb. base sheet and thoroughly mop. Complete the roof when weather conditions permit.

CONCRETE OR POURED GYPSUM DECKS

10-year Roofs—Inclines Up to 6 In. to 1 Ft.—Crushed Slate

STANDARD REX CONSTRUCTION BUILT-UP ROOFS—SPECIFICATION C-2-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felts—The felts used shall be Richardson Felt-Viskalt Saturated, weighing approximately 15 lb. per 108 sq. ft.

Cap Sheets—The two layers of cap sheets shall be Rex Construction Roofing 36 in. wide of which 17 in. is mineral surfaced and 19 in. is bare felt, to provide a proper nailing and bonding surface. Weight approximately 100 lb. per 100 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped. For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The concrete slab shall be swept clean and free from all debris. All rough spots shall be smoothed and all low spots properly filled to insure adhesion. It shall be properly graded to all outlets.

Second—A thorough coating of Asphalt Concrete Primer shall be applied by a brush and sufficient time (12 to 24 hours) given for it to thoroughly penetrate the surface.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound two layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each sheet 19 in. over preceding one, mopping between laps a thorough coating of Viskalt Roofing Compound, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a heavy and uniform mopping of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Sixth—A starting sheet of Asphalt Felt 19 in. wide, cut from the selvage side of the Rex Construction Roofing, shall be laid in the hot Viskalt Roofing Compound, securely held in place by nails used as often as necessary.

Seventh—Mop the full width of the 19-in. starting sheet with hot Viskalt Roofing Compound, and, while hot, lay the first full course, using a full width 36-in. sheet of Rex Construction Roofing, the mineral-surfaced edge flush with and parallel to the starting line. Each sheet of Rex Construction Roofing shall be securely fastened by staggering nails along the selvage side of the sheet. Nails should be spaced from 8 to 12 in., depending upon the incline of the roof. Where end laps are necessary, they shall be overlapped 6 in. and thoroughly cemented together.

Eighth—Mop the full width of the 19-in. selvage side with Viskalt Roofing Compound, into which, while hot, embed a second sheet of Rex Construction Roofing, nailing as described and continue with subsequent sheets until roof is completed. Care should be taken not to spill

compound on mineral surface of Rex Construction Roofing. This is absolutely essential, as discoloration of the mineral surface destroys the real effect of the roof.

Note: When application is intended over Concrete Decks where slope exceeds 2 in. to the foot, suitable means for nailing must be provided.

When application is to be over Gypsum Roof Decks, application is to be made as over concrete, nailing each sheet in addition thereto 6 in. from the upper edge; nails to be spaced not more than 2 ft. apart.

Flashings, Flanges, etc.

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to the roofing shall be set in hot Viskalt Roofing Compound on top of the three plies of felt, nailed and double felt stripped; felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

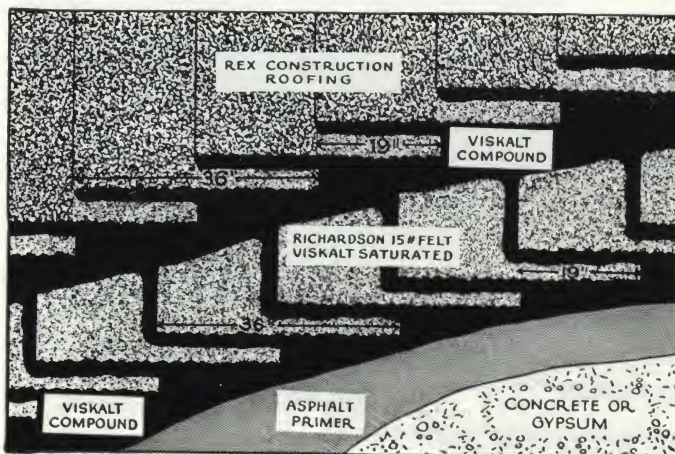
Note: This specification is adaptable for roofs up to 6 in. to the foot, and is not recommended for roofs having an incline under 1 in. to the foot. Rex Construction Roofing can be run parallel to the incline of the roof. Furnished in red, green and blue-black Mineral Surfacing.

Bill of Materials Per Square

Two layers Richardson 15-lb. Felt-Viskalt Saturated....	30 lb.
One coat Asphalt Concrete Primer.....	9 lb.
Four layers Viskalt Roofing Compound (12 gal.).....	108 lb.
One layer Rex Construction Roofing (2 rolls).....	100 lb.
Weight of completed roof.....	247 lb.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he deems necessary. Such bonds will be given only when the roof is laid by a Richardson Franchise Roofer, and in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



CONCRETE OR POURED GYPSUM DECKS

10-year Roofs—Inclines Not Exceeding 3 In. to 1 Ft.—Gravel or Slag Finish

STANDARD RICHARDSON BUILT-UP ROOFS—SPECIFICATION C-3-C

Description of Materials

Primer—The priming coat shall be Asphalt Concrete Primer.

Felt—There shall be used three layers of Richardson Felt-Viskalt Saturated, weighing approximately 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Richardson Flex-A-Tile Asphalt, heated to a temperature of not more than 360° F., uniformly mopped. For each mopping use approximately 30 lb. per 100 sq. ft.

Surfacing Material—The surfacing material shall be slag or gravel. 400 lb. of gravel or 300 lb. of slag, from ¼ to ⅝ in. in size, shall be used for each 100 sq. ft. of surfacing. It shall be dry and free from dirt.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free from all debris. It shall be dry, firm and clean, free from all rough and low spots and properly graded to the outlets.

Second—A thorough coating of Asphalt Concrete Primer shall be applied by a brush and sufficient time (12 to 24 hours) given for it to thoroughly penetrate the surface.

Third—Mop the entire surface with a uniform and thorough coating of Flex-A-Tile Asphalt, using approximately 40 lb. per 100 sq. ft.

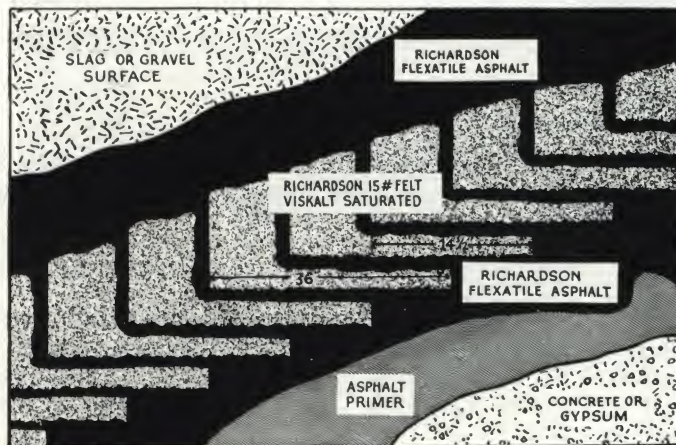
Fourth—Embed in the hot Flex-A-Tile Asphalt three layers of Richardson 15 lb. Felt-Viskalt Saturated, lapping each sheet 24½ in. over the preceding one, mopping between each layer a thorough coating of Flex-A-Tile Asphalt, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Pour from a dipper a uniform coating of hot Flex-A-Tile Asphalt, using approximately 50 lb. per 100 sq. ft., into which, while hot, embed 400 lb. of gravel or 300 lb. of slag per square, uniformly spread and broomed.

Note: When application is intended over concrete decks where slope exceeds 2 inches to the foot, suitable means for nailing must be provided.

When application is to be over gypsum roof decks application is to be made as over concrete, nailing each sheet in addition thereto 6 in. from the upper edge; nails to be spaced not more than 2 ft. apart and shall not be longer than ⅝ in. and driven through flat tin discs.

Abbreviated Specifications 10-year Roof—Roofing to be Standard Richardson Built-up Roof.



Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to the roofing shall be set in hot Flex-A-Tile Asphalt on top of the three plies, securely fastened and double felt stripped, the felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Richardson Flex-A-Tile Asphalt.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Richardson Flex-A-Tile Asphalt.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

Bill of Materials Per Square

Three layers Richardson 15 lb. Felt-Viskalt Saturated...	45 lb.
One coating Viskalt Concrete Primer (1 gal.).....	9 lb.
Flex-A-Tile Asphalt	150 lb.
Gravel	400 lb.
Weight of completed roof.....	604 lb.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he deems necessary. Such cuts shall be made prior to embedding of surfacing material. Such bonds will be given only when the roof is applied by a Richardson Franchise Roofer, and in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.

Specification C-3-C—Applied in strict accordance with manufacturer's complete specifications. For use over concrete or gypsum deck.

WOOD DECKS

20-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

SUPER-VISKALT BUILT-UP ROOFS—SPECIFICATION A-1-W

Description of Materials

Base Sheet—The base sheet shall be Richardson Special Base Sheet weighing about 34 lb. per square.

Felt—The four layers of felt shall be Richardson Felt-Viskalt Saturated, weighing over 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped.

For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free from debris. It will be constructed of seasoned lumber free from knot holes, large cracks and loose boards.

The roof shall be properly graded to the outlets.

Second—Cover the entire surface with a layer of Richardson Special Base Sheet, lapping each sheet not less than 2 in. over the preceding sheet, nailing over 6 in. along the laps and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are solidly seated, and not driven between the boards. The base sheet should be unwound and laid with a finished surface next to the wood deck.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound four layers of Richardson Felt-Viskalt Saturated, lapping each layer 24½ in. over the preceding layer, mopping between the laps a heavy coating of Viskalt Roofing Compound, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a uniform coating of Viskalt Roofing Compound, forming a complete homogeneous mass.

Flashings, Flanges, etc.

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Viskalt Roofing Compound on top of at least five plies of felt, nailed and double felt stripped; felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

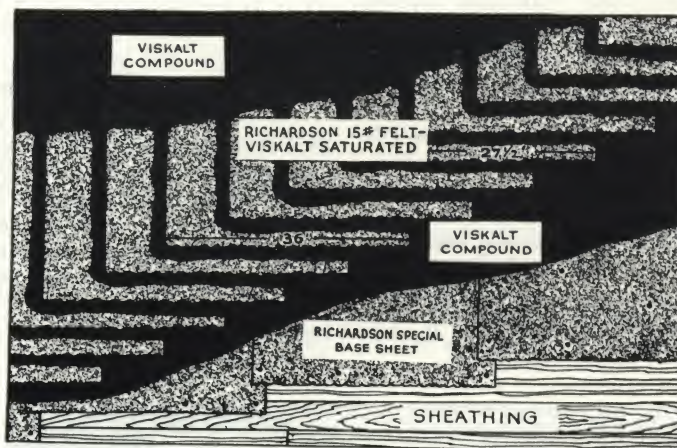
Bill of Materials Per Square

One layer Richardson Special Base Sheet.....	34 lb.
Four layers 15-lb. Richardson Felt-Viskalt Saturated...	60 lb.
Five layers Viskalt Roofing Compound (15 gal.).....	135 lb.

Weight of completed roof.....229 lb

Bond

If a Richardson Twenty-year Guaranty Bond is required, roof shall be inspected by an authorized Richardson Inspector who shall cut the roof as he considers necessary. Such bonds shall be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of 10 years.



15-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

VISKALT BUILT-UP ROOFS—SPECIFICATION B-1-W

Specification B-1-W is the same as A-1-W with the following exceptions:

The paragraph "**Felt**" should be changed to read, "The three layers of felt, etc."

Under "**Methods of Construction**" the first line in the paragraph "**Fourth**" should be changed to, "Embed in the hot Viskalt Roofing Compound three layers of Richardson Felt-Viskalt Saturated, lapping each layer 22½ in.," etc.

The fifth line under "**Flashings, Flanges, Etc.**" should

be changed to read "... on top of at least four plies of felt..."

For the "**Bill of Materials Per Square**" substitute the following:

One layer Richardson Special Base Sheet.....	34 lb.
Three layers 15-lb. Richardson Felt-Viskalt Saturated..	45 lb.
Four layers Viskalt Roofing Compound (12 gal.).....	108 lb.

Weight of completed roof.....187 lb

"**Bond**" will be the same except "Fifteen-year" will be substituted for "Twenty-year."

WOOD DECKS

20-year Roofs—Inclines Up to 6 In. to 1 Ft.—Crushed Slate

SUPER-REX CONSTRUCTION BUILT-UP ROOFS—SPECIFICATION A-2-W

Description of Materials

Base Sheet—The base sheet shall be Richardson Special Base Sheet, weighing about 34 lb. per square.

Felt—The two layers of felt shall be Richardson Felt-Viskalt Saturated, weighing about 15 lb. per 108 sq. ft.

Cap Sheets—The two layers of cap sheets shall be Rex Construction Roofing 36 in. wide, of which 17 in. is mineral surfaced and the other 19 in. is bare felt, to provide a proper nailing and bonding surface. Weight approximately 100 lb. per 100 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped. For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free of all debris. It shall be constructed of seasoned lumber, free from knot holes, large cracks and loose boards. The roof deck shall be properly graded to the outlets.

Second—Cover the entire surface with a layer of Richardson Special Base Sheet, lapping each sheet not less than 2 in. over the preceding sheet, nailing every 6 in. along the laps, and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are solidly seated and not driven between the boards. The Base Sheet should be unwound and laid with a finished surface next to the wood deck.

Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound two layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each sheet 19 in. over the preceding layer, mopping between the laps a heavy coating of Viskalt Roofing Compound, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a heavy and uniform mopping of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Sixth—A starting sheet of Asphalt Felt 19 in. wide, cut from the selvage side of the Rex Construction Roofing, shall be laid in a mopping of Viskalt Roofing Compound, this sheet to be securely held in place by nails used as often as necessary.

Seventh—Mop the full width of the 19-in. starting sheet with hot Viskalt Roofing Compound, and while hot lay the first full course, using a full width 36-in. sheet of Rex Construction Roofing, the mineral surfaced edge flush with and parallel to the starting line. Each sheet of Rex Construction Roofing shall be securely fastened by staggering nails along the selvage side of the sheet. Nails should be spaced from 8 in. to 12 in., depending upon the incline of the roof. Where end laps are necessary, they

shall be overlapped 6 in. and thoroughly nailed and cemented together.

Eighth—Mop the full width of the 19-in. selvage side with Viskalt Roofing Compound, into which, while hot, embed a second sheet of Rex Construction Roofing, nailing as described and continue with subsequent sheets until roof is completed. Care should be taken not to spill compound on mineral surface of Rex Construction Roofing. This is absolutely essential, as discoloration of the mineral surface destroys the real effect of the roof.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Viskalt Roofing Compound under Rex Construction Roofing and on top of two plies of felt, nailed and double felt stripped, the felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Asphalt Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

Note: This specification is adaptable for roofs up to 6 in. to 1 ft.; not recommended for roofs having an incline under 1 in. to 1 ft. On sloping roofs, Rex Construction can be run parallel with the incline of the roof.

Bill of Materials Per Square

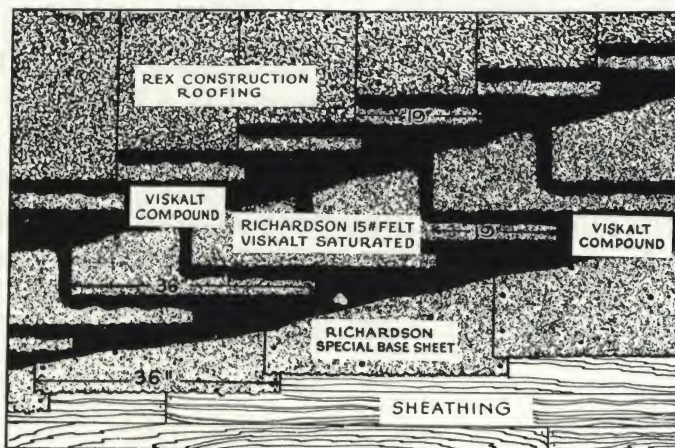
One layer Richardson Special Base Sheet.....	34 lb.
Two layers Richardson 15-lb. Felt-Viskalt Saturated....	30 lb.
Four layers Viskalt Roofing Compound (12 gal.).....	108 lb.
One layer Rex Construction Roofing (2 rolls).....	100 lb.

Weight of completed roof.....272 lb.

Bond

If a Richardson Twenty-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification.

If Richardson Special Flashing Construction is used in conjunction with this specification we will issue flashing endorsement covering that part of the roof construction for a period of ten years.



WOOD DECKS

20-year Roofs—Inclines Up to 3 In. to 1 Ft.—Crushed Slate

SUPER-RICHARDSON BUILT-UP ROOFS—SPECIFICATION A-3-W

Description of Materials

Felt—There shall be used one layer of Richardson Felt-Viskalt Saturated, weighing not less than 30 lb. per 108 sq. ft. and three layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Richardson Flex-A-Tile Asphalt heated to a temperature of not over 360° F., uniformly mopped. For each mopping use 30 lb. per 100 sq. ft.

Surfacing Material—The surfacing material shall be gravel or slag, 400 lb. of gravel or 300 lb. of slag from ¼ to ⅝ in. inside shall be used for each 100 sq. ft. of surfacing. It shall be dry and free from dirt.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free from all debris. It shall be constructed of seasoned lumber, free from knot holes, large cracks and loose boards. The roof deck shall be properly graded to the outlets.

Second—Cover the entire surface with a layer of Richardson 30 lb. Felt-Viskalt Saturated, lapping each sheet not less than 2 in. over the preceding sheet, nailing every 6 in. along the laps, and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are solidly seated and not driven between the boards.

Third—Mop the entire surface with a uniform and thorough coating of Richardson Flex-A-Tile Asphalt, using approximately 30 lb. per 100 sq. ft.

Fourth—Embed into the hot Richardson Flex-A-Tile Asphalt three layers of Richardson 15 lb. Felt-Viskalt Saturated, lapping each layer 24½ in. over the preceding layer, mopping between the laps a heavy coating of Richardson Flex-A-Tile Asphalt, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Pour from a dipper a uniform coating of Richardson Flex-A-Tile Asphalt, using approximately 50 lb. per 100 sq. ft., into which, while hot, embed 400 lb. of gravel or 300 lb. of slag.

Base and Counter Flashings

All flashings shall be

constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Richardson Flex-A-Tile Asphalt on top of at least four plies of felt, nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Richardson Flex-A-Tile Asphalt.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Richardson Flex-A-Tile Asphalt.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surfaces outlined for final coating.

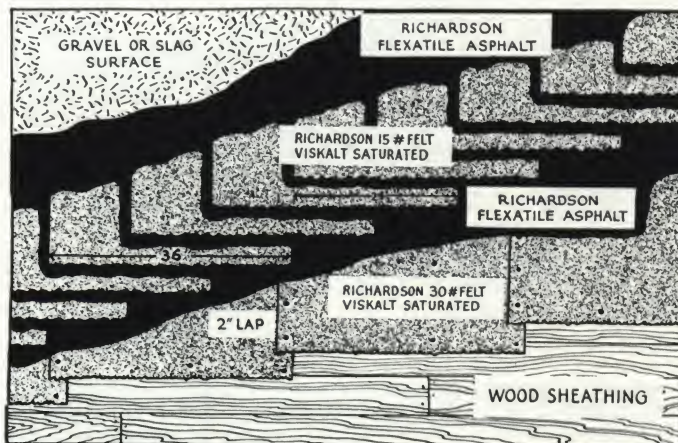
Bill of Materials Per Square

One layer Richardson 30 lb. Felt-Viskalt Saturated.....	30 lb.
Three layers Richardson 15 lb. Felt-Viskalt Saturated....	45 lb.
Four layers Richardson Flex-A-Tile Asphalt.....	140 lb.
Gravel	400 lb.

Weight of completed roof.....615 lb.

Bond

If a Richardson Twenty-year Guaranty Bond is required the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such cuts shall be made before any gravel or slag is applied. Such bonds will be given only when the roof is applied by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



15-year Roofs—Inclines Not Over 4 In. to 1 Ft.—Gravel or Slag

REX CONSTRUCTION BUILT-UP ROOFS—SPECIFICATION B-3-W

Specification B-3-W is the same as Specification A-3-W with the following exceptions:

The paragraph "**Felt**" should be changed to read: "There shall be four layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft.

The paragraph "**Second**" should be changed to read: "Cover the entire surface with a layer of Richardson 15 lb. Felt, etc."

Change "Bill of Materials Per Square" to the following:

Four layers Richardson 15 lb. Felt-Viskalt Saturated....	60 lb.
Four layers Richardson Flex-A-Tile Asphalt.....	140 lb.
Gravel	400 lb.

Weight of completed roof.....600 lb.

"Bond" will be the same except "Fifteen-year" will be substituted for "Twenty-year."

WOOD DECKS

10-year Roofs—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

STANDARD VISKALT BUILT-UP ROOFS—SPECIFICATION C-1-W

Description of Materials

Felt—There shall be used one layer of Richardson Felt-Viskalt Saturated, weighing not less than 30 lb. per 108 sq. ft., and two layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped. For each mopping use 3 gal. (approximately 30 lb.) per 100 sq. ft.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free from all debris. It shall be constructed of seasoned lumber free from knot holes, large cracks and loose boards. The roof shall be properly graded to the outlets.

Second—Cover the entire surface with a layer of Richardson 30-lb. Felt-Viskalt Saturated, lapping each sheet not less than 2 in. over preceding sheet, nailing every 6 in. along the laps, and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are solidly seated and not driven between the boards.

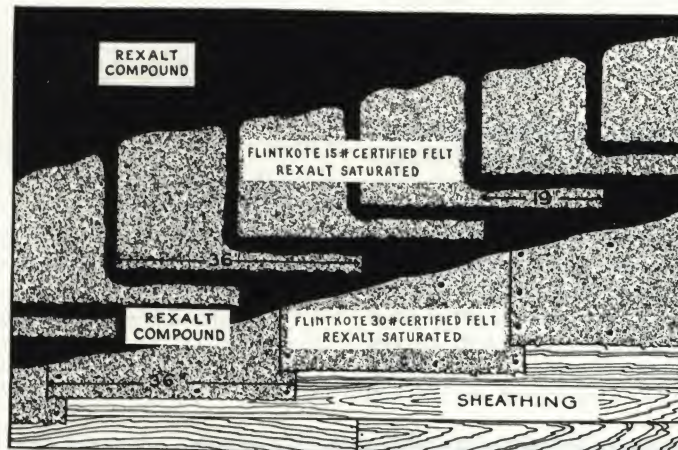
Third—Mop the entire surface with a uniform and thorough coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fourth—Embed in the hot Viskalt Roofing Compound two layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each sheet 19 in. over the preceding one, mopping between the sheets a heavy coating of Viskalt Roofing Compound, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth—Thoroughly mop the entire surface with a uniform coating of Viskalt Roofing Compound, forming a complete homogeneous mass.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.



5-Year Roofs—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

MEDIUM VISKALT BUILT-UP ROOFS—SPECIFICATION D-1-W

Specification D-1-W is the same as Specification C-1-W with the following exceptions:

The paragraph "Felt" is preceded by a paragraph titled "Base Sheet" which reads as follows: "The Base Sheet shall be a Richardson Special Base Sheet weighing approximately 34 lb. per square."

The paragraph "Felt" shall be changed to read: "The Felt shall be Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft."

Under "Method of Construction," the second paragraph should read: "Cover the entire surface with one layer of Richardson Special Base Sheet, lapping not less than 2 in., etc."

All metal flanges, flashings and edgings which are connected to the roofing shall be set in hot Viskalt Roofing Compound on top of at least four plies of felt nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Felt-Viskalt Saturated, finishing the surface as outlined for final coating.

Bill of Materials Per Square

One layer Richardson 30-lb. Felt-Viskalt Saturated.....	30 lb.
Two layers Richardson 15-lb. Felt-Viskalt Saturated.....	30 lb.
Three layers Viskalt Roofing Compound (9 gal.).....	81 lb.

Weight of completed roof.....	141 lb.
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Bond

If a Richardson Ten-year Guaranty Bond is required, roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such bonds shall be given only when the roof is laid by an approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.

The paragraph "Fourth" should be changed to read: "Embed in the hot Viskalt Roofing Compound a layer of Richardson Felt-Viskalt Saturated, lapping it not less than 3 in."

The fifth line under "Base and Counter Flashing" should be changed to read: "on top of at least two plies of felt."

Change "Bill of Materials" to the following:

One layer of Richardson Special Base Sheet.....	34 lb.
One layer Richardson Felt-Viskalt Saturated.....	15 lb.
Two layers Viskalt Roofing Compound (6 gal.).....	54 lb.

Weight of completed roof.....	103 lb.
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WOOD DECKS

10-year Roofs—Inclines Up to 6 In. to 1 Ft.—Crushed Slate

STANDARD REX CONSTRUCTION BUILT-UP ROOFS—SPECIFICATION C-2-W

Description of Materials

Base Sheet—The base sheet shall be K-B Sheathing Paper—40 lb. per 500 sq. ft.

Felt—The two layers of felt shall be Richardson Felt-Viskalt Saturated, weighing approximately 15 lb. per 108 sq. ft.

Cap Sheets—The two layers of cap sheets shall be Rex Construction Roofing, 36 in. wide, of which 17 in. is mineral surfaced and 19 in. is bare felt, to provide proper bonding surface. Weight approximately 100 lb. per 100 sq. ft.

Bitumen—The bitumen shall be Viskalt Roofing Compound, delivered to the job in the manufacturer's original container, heated to a temperature of not more than 375° F., uniformly mopped.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First—The deck must be swept clean and free from all debris. It shall be constructed of seasoned lumber, free from knot holes, large cracks and loose boards. The roof shall be properly graded to the outlets.

Second—Cover the entire surface with a layer of K-B Sheathing Paper, lapping each sheet 2 in. over preceding one and securely nailing at laps.

Third—Cover the entire surface with two layers of Richardson 15-lb. Felt-Viskalt Saturated, lapping each sheet 19 in. over preceding layer, securely nailing the back of each sheet every 6 in., 2 in. from the edge of the sheet.

Fourth—Mop each 19-in. lap with a uniform coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Fifth—Mop over the entire surface a uniform coating of Viskalt Roofing Compound, using 3 gal. (approximately 30 lb.) per 100 sq. ft.

Sixth—A starting sheet of Asphalt Felt 19 in. wide, cut from the selvage side of the Rex Construction Roofing, shall be laid in a mopping of Viskalt Roofing Compound, this sheet to be securely held in place by nails used as often as necessary.

Seventh—Mop the full width of the 19-in. starting sheet with hot Viskalt Roofing Compound and, while hot, lay the first full course, using a full width of 36-in. sheet of Rex Construction Roofing, the mineral surfaced edge flush with and parallel to the starting line. Each sheet shall be securely fastened by staggering nails along the selvage side of the sheet. Nails should be spaced from 8 to 12 in. apart, depending upon the incline of the roof. Where end laps are necessary, they shall be overlapped 6 in. and thoroughly nailed and cemented together.

Eighth—Mop the full width of the 19-in. selvage side with Viskalt Roofing Compound, into which, while hot, embed a second sheet of Rex Construction Roofing, nailing as described and con-

tinue with subsequent sheets until roof is completed. Care should be taken not to spill compound on mineral surface of Rex Construction Roofing. This is absolutely essential, as discoloration of the mineral surface destroys the real effect of the roof.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Viskalt Roofing Compound under Rex Construction Roofing, and on top of two plies of felt, nailed and double felt stripped, the felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with hot Viskalt Roofing Compound.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Viskalt Roofing Compound.

Valleys and Gutters

Reinforce all valleys and gutters by the use of an additional layer of Richardson Certified Felt-Viskalt Saturated, to be applied before Rex Construction Roofing.

Note: This specification is adaptable for roofs up to 6 in. to 1 ft., and not recommended for roofs having an incline under 1 in. to 1 ft. On sloping roofs, Rex Construction can be run parallel with the incline of the roof.

Bill of Materials Per Square

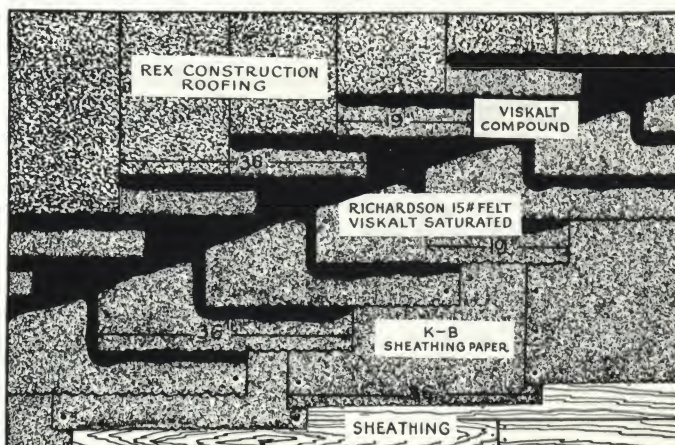
One layer K-B Sheathing Paper.....	8 lb.
Two layers Richardson 15-lb. Felt-Viskalt Saturated....	30 lb.
Three layers Viskalt Roofing Compound (9 gal.).....	81 lb.
One layer Rex Construction Roofing (2 rolls).....	100 lb.

Weight of completed roof.....219 lb.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is applied by a Richardson Franchise Roofer in strict accordance with the above specification.

If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



WOOD DECKS

10-year Roofs—Inclines Not Exceeding 4 In. to 1 Ft.—Gravel or Slag

STANDARD RICHARDSON BUILT-UP ROOFS—SPECIFICATION C-3-W

Description of Materials

Felt—There shall be used one layer of Richardson Felt-Viskalt Saturated, weighing not less than 30 lb. per 108 sq. ft., and two layers of Richardson Felt-Viskalt Saturated, weighing not less than 15 lb. per 108 sq. ft.

Bitumen—The bitumen shall be Richardson Flex-A-Tile Asphalt, heated to a temperature of not over 360 degrees F., uniformly mopped. For each mopping use 30 lb. per 100 sq. ft.

Surfacing Material—The surfacing material shall be gravel or slag 400 lb. of gravel or 300 lb. of slag ranging from $\frac{1}{4}$ to $\frac{5}{8}$ in. in size shall be used for each 100 sq. ft. of surfacing. It shall be dry and free from dirt.

Thermometer—Use a thermometer, as all bituminous materials are easily destroyed by over-heating.

Method of Construction

First. The deck must be swept clean and free from all debris. It shall be constructed of seasoned lumber free from knot holes, large cracks and loose boards. The roof deck shall be properly graded to the outlets.

Second: Cover the entire surface with a layer of Richardson 30 lb. Felt-Viskalt Saturated, lapping each sheet not less than 2 in. over preceding one, nailing every 6 in. along the laps, and staggering nails 11 in. apart down the center of the sheet. Care must be taken to see that the nails are soildly seated and not driven between the boards.

Third: Mop the entire surface with a uniform and thorough coating of Richardson Flex-A-Tile Asphalt, using approximately 30 lb. per 100 sq. ft.

Fourth: Embed in the hot Richardson Flex-A-Tile Asphalt two layers of Richardson 15 lb. Felt-Viskalt Saturated, lapping each layer 19 in. over the preceding one, mopping between the laps a heavy coating of Richardson Flex-A-Tile Asphalt, so that in no place shall felt touch felt, thus forming a solid and continuous waterproofing membrane.

Fifth: Pour from a dipper a uniform coating of Richardson Flex-A-Tile Asphalt, using approximately 50 lb. per 100 sq. ft., into which, while hot, embed 400 lb. of gravel or 300 lb. of slag.

Base and Counter Flashings

All flashings shall be constructed in accordance with Richardson Special Flashing Specifications.

All metal flanges, flashings and edgings which are connected to roofing shall be set in hot Flex-A-Tile Asphalt on top of four plies of felt, nailed and double felt stripped, felt strips to be not less than double the width of the metal flange and cemented solidly together and to the flange with Flex-A-Tile Asphalt.

Waterproofing Walls

All walls, chimneys and other projections shall first be primed with Richardson Concrete Primer, and then mopped sufficiently high with Viskalt Roofing Compound to prevent absorption of moisture or leakage through brick or concrete. The entire fire walls or parapet walls above flashing line shall be given a thorough coating of Richardson Flex-A-Tile Asphalt.

Valleys and Gutters

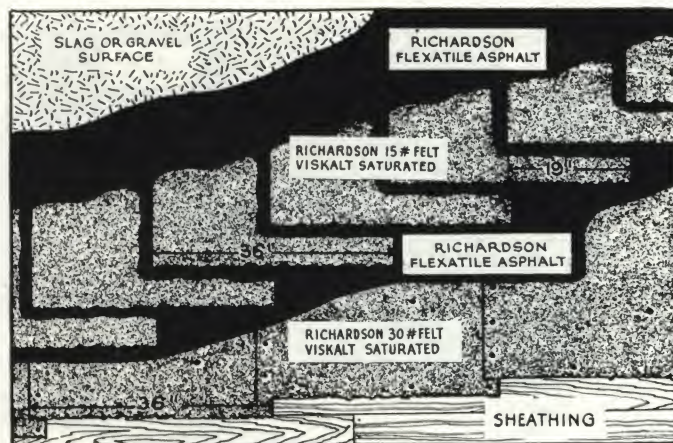
Reinforce all valleys and gutters by the use of an additional layer of Richardson Certified Felt-Viskalt Saturated, finishing the surfaces as outlined for final coating.

Bill of Materials Per Square

One layer Richardson 30 lb. Felt-Viskalt Saturated.....	30 lb.
Two layers Richardson 15 lb. Felt-Viskalt Saturated....	30 lb.
Three layers Richardson Flex-A-Tile Asphalt.....	110 lb.
Gravel	400 lb.
Weight of completed roof.....	570 lb.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector, who shall cut the roof as he considers necessary. Such cuts shall be made before the application of gravel or slag. Such bonds will be given only when the roof is applied by a Richardson Franchise Roofer and in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.



STEEL DECKS

10-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

STANDARD VISKALT BUILT-UP ROOFS—SPECIFICATION C-1-S

General Information

This specification calls for three layers of Richardson 15-lb. Felt-Viskalt Saturated, laid and bonded to the "Steel Roof Decks," as specified under "Application."

Richardson Felt-Viskalt Saturated is put up in rolls of 432 sq. ft. each and weighs approximately 60 lb. per roll, or 15 lb. per 108 sq. ft. All felt is 36 in. wide.

Strips of felt cut to a width of 6 in. are used to close connecting joints where cross joints occur; also where roofing sheets connect with wall flashings, etc.

Asphalt

This type of roof requires approximately 12 gal. (108 lb.) of Viskalt Roofing Compound per 100 sq. ft. of roof surface.

Three gallons of Viskalt Roofing Compound per square is used for bonding first sheet of felt to the steel deck.

The two additional sheets of felt require three moppings of Viskalt Roofing Compound, or a total of 12 gal. to each 100 sq. ft. of 3-Ply Built-up Roof.

Flashing and Edging

Richardson Copperclad Flashing material is used for edging and counterflashing work on account of its great tensile strength, flexibility and durability. This material can be furnished in strips of various widths, rolls containing 50 lineal feet.

Work Proposed

This specification contemplates furnishing all materials and labor required to apply roofing and base flashings exclusive of any metal work.

Application

The steel deck shall be mopped with Viskalt Roofing Compound, into which, while hot, embed 3 layers of Richardson Felt-Viskalt Saturated, cementing solidly between the sheets so at no place shall felt touch felt; each sheet to overlap previous sheet, leaving 11 in. exposed and making a continuous 3-ply.

The felt may be run with the pitch or crosswise of the pitch of the roof, depending upon the prevailing conditions in connection with the type of building or roof surface to be covered.

The felt must be unrolled and set into the Viskalt Roofing Compound while the Viskalt Compound is hot in order to insure a perfect bond.

Allow all roofing sheets from the main deck to turn up on vertical walls from 2 to 3 in.

Lay a strip of Felt 6 in. wide, uncemented over expansion joint at ridge, cementing the roof sheets over same.

Nails (large head) are to be used along edging strips and other points where necessary.

Gutters

All gutters, valleys, etc., to be completed with 3 plies of Richardson Felt-Viskalt Saturated Built-up Roof construction, in addition to reinforcing strips of felt.

All gutters and valley sheets to extend to the main roofing surface sufficiently to connect with the roofing felt extending from the main deck. All to be applied as specified under "Application."

Flashing

Lay a strip of Richardson Felt-Viskalt Saturated, 12 in. wide in the angle of all walls, allowing 6 in. to extend up the vertical surfaces and 6 in. on the main deck. The roofing felt from the main deck to be applied over this angle strip extending up the steel vertical wall from 2 to 3 in. high. On top of the roofing sheets from the main deck, set in separately 3 layers of felt, cut to a width of 12 in. solidly cemented together and to the underlying surface with hot Viskalt Compound.

The material used for counterflashing, Richardson Copperclad Flashing mate-

rial, is furnished in strips to the steel erector and set in place by him in the steel wall or sill sheet before erection. This counterflashing strip to extend down the steel wall and out on the main roof deck at least 6 in., being mopped solid thereto with Viskalt Roofing Compound. Felt strips to be cemented over the connecting laps, both on the steel wall and where the counterflashing extends out on the main deck. All cross or end laps to be at least 3 in. and cemented solidly with Viskalt Compound and stripped with felt.

Eave and Gable Flashing

Apply the Richardson edging material so that it extends approximately ½ in. below steel membrane, bent at right angles and nailed into nailing bead on 2-in. centers by means of large head galvanized nails.

Edging material is to be laid in hot Viskalt Roofing Compound, and joints to have 4-in. lap and sealed.

Application and materials for gable edgings are the same as above with the exception that the edging material is to be applied over the top of the Built-up Roof to which a felt strip is added over the lap for additional protection.

Roof Finish

The entire surface of the roofing applied shall be mopped with Viskalt Roofing Compound applied hot and spread to a uniform finish.

Alternate Roof Finish

A protective coating of Richardson Emulsified Asphalt Roof Coating (liquid asphalt C-13 H.P.C.) shall be brushed or sprayed on cold using approximately 5 gal. for each 100 sq. ft. of roof surface. Richardson Emulsified Asphalt Roof Coating can be applied on damp surfaces with absolute success and certainty.

Notice to Owner or General Contractor—Attention must be given the following items:

All steel decks must be free from grease, dirt, oil, etc., and the weather surfaces properly coated.

All loose chips, nails or rubbish must be removed and the surface swept clean and maintained in such condition for the application of the Richardson Built-up Roof.

All sharp angles to be rounded out so as to avoid rough, sharp edges that would damage the roofing.

The general contractor is to supply and properly install all necessary sheet metal work, including downspouts, flashings for vent pipes, etc., so as to allow for the proper grading of roof.

Bill of Materials Per Square

Richardson Felt-Viskalt Saturated.....	45 lb.
Viskalt Roofing Compound (12 gal.).....	108 lb.

Weight per square of completed roof.....153 lb.

When "Insulation" is required the following specifications will cover the application of this material.

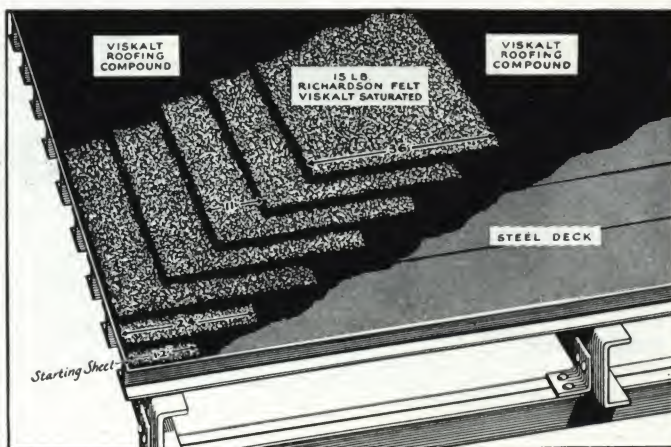
The "Steel Deck" shall be insulated with an approved insulating material, which shall be set in hot Viskalt Roofing Compound, and where necessary attached to the "deck" by means of approved fastening.

To assure perfect bond, no more area shall be mopped than will permit the laying of insulation while the Viskalt Compound is hot.

No more insulation shall be laid than can be fully waterproofed and sealed at edges during one day's operation.

Care must be taken to protect insulation from moisture prior to laying and during application.

On pitched roofs, with roof pitch over 3 in. in 12 in., all insulation shall be mechanically fastened to the "Steel Deck" with approved "Insulation" cleats. The cleat must be driven into the web of the supporting members, without puncturing the "Steel Deck"



Recommended Commercial Roof Insulation

Semi-flexible materials: Similar to flax and rye fibre, in sheet form.

Semi-rigid materials: Similar to cork, rock wool, etc., in board form.

Rigid Fibrous Materials: Similar to wood pulp and sugar cane, in sheet form.

It is the experience of manufacturers of roofing, that "Steel Decks" provide a most satisfactory base over which to apply insulations and waterproofing coverings. A "Steel Deck" insulated and waterproofed, is economical in that its lightness in weight allows for more economical design of supporting steel.

Note: Although the Richardson Roofing Company does not manufacture and market commercial "Insulation" or "Steel

Decks," co-operation with the manufacturers of insulating materials and steel roof decks is an approved policy, for the purpose of preparing complete data, specifications, etc.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is laid by an Approved Richardson Franchise Roofer in strict accordance with the above specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.

STEEL DECKS

20-year Roofs—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

BUILT-UP ROOFS—SPECIFICATION A-1-S

This specification is the same as Specification C-1-S with the following exceptions:

The paragraph "General Information" should be changed to read "This specification calls for five layers of Richardson 15 lb. Felt-Viskalt Saturated laid and bonded to the 'Steel Roof Decks' as specified under 'Application.'"

The third paragraph under "Application" should be changed to read: "The four additional sheets of felt require five moppings of Viskalt Roofing Compound, or a total of eighteen gallons to each 100 sq. ft. of 5-ply Built-up Roof."

The first paragraph under "Application" should be changed to read: "The steel deck shall be mopped with Viskalt Compound into which, while hot, embed five layers of Richardson Felt-Viskalt Saturated,

cementing solidly between the sheets so at no place shall felt touch felt; each sheet to overlap the previous sheet 29½ in. and making a continuous 5-ply."

The first paragraph under "Gutters" should be changed to: "... to be completed with five plies, etc."

The last sentence of the first paragraph under "Flashing" should be changed to: "..... set in separately five layers of felt."

Change "Bill of Materials per Square" to the following:

Richardson Felt-Viskalt Saturated.....	75 lb.
Viskalt Roofing Compound (18 gal.).....	162 lb.

Weight per square of complete roof....237 lb.

"Bond" will be the same except "Twenty-Year" will be substituted for "Ten-Year."

DECKS OF RIGID INSULATION, CORK, CELOTEX, INSULITE, MAFTEX, ETC.

10-year Roofs—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

STANDARD VISKALT BUILT-UP ROOFS—SPECIFICATION C-1-I

General Information

This specification calls for one layer of 30 lb. and two layers of Richardson 15-lb. Felt-Viskalt Saturated, laid and bonded to the "insulation" as specified under "Application."

Richardson Felt-Viskalt Saturated is put up in rolls of 216 and 432 sq. ft. each and weighs approximately 60 lb. per roll, or 30 lb. and 15 lb. per 108 sq. ft. All felt is 36 in. wide.

Strips of felt cut to a width of 6 in. are used to close connecting joints where cross joints occur; also where roofing sheets connect with wall flashings, etc.

Asphalt

This type of roof requires approximately 12 gal. (108 lb.) of Viskalt Roofing Compound per 100 sq. ft. of roof surface, exclusive of material required for cementing "insulation" to deck, if such is required.

Three gal. of Viskalt Roofing Compound per square is used for bonding first sheet of felt to the "insulation."

The two additional sheets of felt require three moppings of Viskalt Roofing Compound, or a total of 12 gal. to each 100 sq. ft. of completed roof.

Flashing and Edging

Richardson Copperclad flashing material is used for edging and counterflashing work on account of its great tensile strength, flexibility and durability.

Work Proposed

This specification contemplates furnishing all materials and labor required to apply roofing and base flashings exclusive of any metal work.

Application

After the "insulation" has been installed, in accordance with the requirements for its application, mop the entire surface with Viskalt Roofing Compound, into which, while hot, embed a layer of Richardson 30-lb. Felt-Viskalt Saturated,

cementing solidly to the insulating material. Thoroughly coat the surface of the 30-lb. felt, into which, while hot, embed two layers of Richardson 15-lb. Felt-Viskalt Saturated, cementing solidly between the sheets so as no place shall felt touch felt; each sheet to overlap previous sheet, leaving 17 in. exposed and making a continuous two-ply.

The felt must be unrolled and set into the Viskalt Roofing Compound, while hot, in order to insure proper bond.

Allow all roofing sheets from the main deck to turn up on vertical surfaces from 2 to 3 in.

Lay a strip of felt 12 in. wide, at right angles to all walls, as a flashing reinforcement prior to installation of flashing construction.

Nails (large heads) are to be used where necessary.

Gutters

All gutters, valleys, etc., to be completed with four plies of Richardson Felt-Viskalt Saturated Built-up Roof construction, in addition to reinforcing strips of felt.

All gutters and valley sheets to extend to the main roofing surface sufficiently to connect with the roofing felt extending from the main deck. All to be applied as specified under "Application."

Flashing

Lay a strip of Richardson Felt-Viskalt Saturated, 12 in. wide in the angle of all walls, allowing 6 in. to extend on the vertical surfaces and 6 in. on the main roof. The roofing felt from the main roof to be applied over this angle strip, extending on the vertical wall, from 2 to 3 in. On top of the roofing sheets from the roof proper, set in separately three layers of felt, cut to a width of 12 in., solidly cemented together and to the underlying surfaces with hot Viskalt Compound, 6 in. extending up all vertical surfaces and 6 in. out onto roof proper.

The material used for counterflashing, Richardson Copperclad Flashing material, is furnished in strips to the Mason Contractor and set in place by him in the brick wall during course of construction. This counterflashing strip to extend down the

vertical wall and out on the main roof deck at least 8 in., being mopped solidly thereto with Viskalt Roofing Compound. All walls to be thoroughly primed with Asphalt Primer to insure proper bond. Felt strips to be cemented over connecting laps, both on the wall and where the counter-flashing extends out on main roof.

Roof Finish

The entire surface of the roofing applied shall be mopped with Viskalt Roofing Compound applied hot and spread to a uniform finish.

Alternate Roof Finish

A protective coating of Richardson Emulsified Asphalt Roof Coating (liquid asphalt C-13 H.R.C.) shall be brushed or sprayed on cold, using approximately 5 gal. for each 100 sq. ft. of roof surface. Richardson Emulsified Asphalt Roof Coating can be applied on damp surfaces with absolute success and certainty.

Bill of Materials Per Square

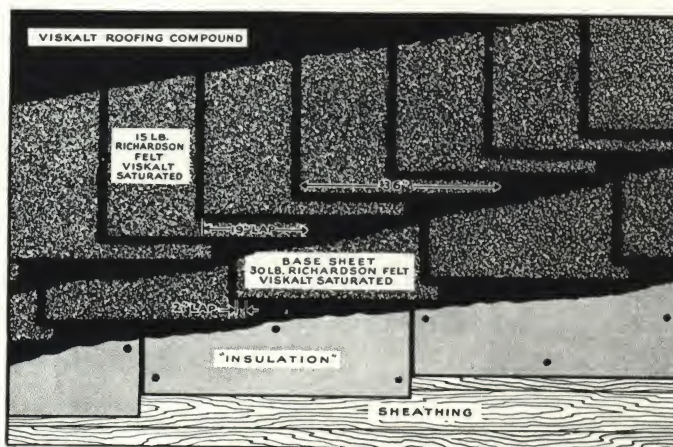
Richardson Felt-Viskalt Saturated.....	60 lb.
Viskalt Roofing Compound (12 gal.).....	108 lb.

Weight per square of completed roof.....168 lb.

Application of "Insulation"—Over Wood Deck—The surface of the roof deck shall be broomed clear of all dirt and loose material and any loose boarding shall be properly nailed down. Over the entire roof area apply "Insulation Board" bringing edges to a moderate contact and securing each board in place by nailing along all edges and through the center of the sheet with large-headed and 1½-in. roofing nails. The course of nails through the center of the board shall be well driven. Nails shall be spaced 12 in. on center.

Where more than one layer of "Insulation Board" is used, each layer shall break joints with the preceding layer. Where multiple layers are used, nails of sufficient length to provide for a secure anchorage to the underlying deck shall be used. In such laminated or multiple layer construction, all nailing shall be done through the surface of the final board. For application of roof covering follow specifications as written above.

Over Concrete, Gypsum or Cement Tile—The deck shall be reasonably smooth, dry and well cured, and the surface of the roof cleared of all dirt and loose materials. Rough uneven surfaces will



not provide a suitable base to receive the "Insulation," and the finished surface shall be subject to the approval of the Architect and acceptable to the Roofing Contractor before work will be started. The deck shall first receive a coat of asphalt primer. Mop with hot Viskalt Roofing Compound, using not less than 3 gal. per square, sufficient area to provide complete embedment of board used. Complete adhesion shall be obtained by carefully pressing down all edges into mopping of hot Viskalt Roofing Compound.

Where "Insulation Board" is to be applied in more than one layer, the top surface of each layer shall be coated with a uniform mopping of Viskalt Roofing Compound and all boards shall be thoroughly embedded and shall be laid with all joints broken or offset with respect to the joints of the preceding layer, and all edges of the board shall be completely coated. At no time shall boards be laid with alternate layers at right angles or crosswise with each other. Only as much board shall be laid over the roof area as can be covered and protected by the roof covering in any one day. The application of the roof covering shall be in accordance with "Application" as specified above.

Recommended Commercial Roof Insulation

Semi-flexible materials: Similar to flax and rye fibre, in sheet form.

Semi-rigid materials: Similar to cork, rock wool, etc., in board form.

Rigid fibrous materials: Similar to wood pulp and sugar cane fibre, in sheet form.

Note: Although the Richardson Roofing Company does not manufacture and market commercial "Insulation," co-operation with the manufacturers of insulating materials is an approved policy, for the purpose of preparing data, specifications, etc.

Bond

If a Richardson Ten-year Guaranty Bond is required, the roof shall be inspected by an authorized Richardson Inspector who shall cut the roof as he considers necessary. Such bonds will be given only when the roof is laid by a Richardson Franchise Roofer and in strict accordance with this specification. If Richardson Special Flashing Construction is used in conjunction with this specification, we will issue a flashing endorsement covering that part of the roof construction for a period of ten years.

DECKS OF RIGID INSULATION, CORK, CELOTEX, MAFTEX, ETC.

20-year Roof—Inclines Up to 6 In. to 1 Ft.—Smooth Finish

BUILT-UP ROOFS—SPECIFICATION A-1-I

This specification is the same as Specification C-1-I with the following exceptions:

The paragraph "General Information" should be changed to read: "This specification calls for five layers of 15 lb. Richardson Felt-Viskalt Saturated, etc."

The first paragraph under "Asphalt" should be changed to read: "This type of roof requires approximately 20 gal. of Viskalt, etc."

The third paragraph under "Asphalt" should be changed to read: "The four additional sheets of felt require five moppings of Viskalt Roofing Compound, or a total of 20 gal. to each 100 sq. ft. of completed roof."

Under "Application" the first paragraph should be changed to read: "....., while hot, embed five layers of Richardson 15 lb. Felt-Viskalt Saturated, cementing solidly to the insulating material. Lap each

layer 29½ in. over the preceding layer, mopping between the laps a heavy coating of Viskalt Roofing Compound so that in no case shall felt touch felt."

The first paragraph "Gutters" should be changed to read: "..... to be completed with five plies of etc."

Under "Flashing" the last sentence of first paragraph should read: "....., set in separately five layers of felt, etc."

Change "Bill of Materials per Square" to the following:

Richardson Felt-Viskalt Saturated.....	75 lb.
Viskalt Roofing Compound (18 gal.).....	162 lb.

Weight per square of completed roof...237 lb.

"Bond" will be the same except "Twenty-Year" will be substituted for "Ten-Year."

RICHARDSON COPPERCLAD FLASHING CONSTRUCTION

General

Richardson Copperclad Flashing is applicable to either new or old brick walls. It is similar in principle to the familiar types of metal cap and base flashings, with the exception that the metal is not entirely depended upon for watertightness.

Richardson Copperclad Flashing provides for expansion and contraction. It is unaffected by climatic conditions, and needs no painting. It is simple to install, and can be set in place by the roofer or mason contractor, depending on the type of flashing required.

Richardson Copperclad Flashing can be used with all types of roofs, whether it be an Asphalt, Asbestos, or Tar and Gravel.

Description

Richardson Copperclad Roof Flashing is a preformed flashing material consisting of laminations of Richardson Felt-Viskalt Saturated, and Copper, bonded together at the factory with an especially blended and refined bitumen.

Richardson Felt-Viskalt Saturated is a long fibred felt possessing extreme strength and elasticity. It is particularly adapted for flashing work when used in conjunction with Richardson Copperclad Flashing.

On account of the elasticity, strength and extreme flexibility of Richardson Copperclad Flashing, it will conform readily and bond securely with hot Viskalt to parapet walls. The danger of cracks and breaks found in ordinary flashing material as a result of misuse, settling of building or movement in roof deck, is materially reduced.

Richardson Copperclad Roof Flashing is furnished in 50 ft. rolls. This material can be readily cut on the job to fit any type of flashing requirement.

Installation

Richardson Copperclad Flashing is prepared ready for insertion into the wall, or, in case of new work, it can be installed in the brick wall during course of construction by the mason contractor.

First—Provide a raggle in the brick wall by raking mortar out of joint to a depth of 2 in., or insert a chamfered wood strip about $\frac{1}{2}$ in. wide and 2 in. deep. Richardson Copperclad Flashing shall be used in all raked mortar joints.

Alternate: Richardson Copperclad Flashing may be furnished to mason contractor who shall build it into the wall during course of construction. Flashing shall be set in the wall so that it shall extend 7 in. into the wall and on a line not more than 11 in., nor less than 6 in. above the roof level.

Second—On all vertical surfaces where Copperclad Flashing is to be installed (if roof deck is of boards), the base sheet or sheets used in constructing the roof shall extend 4 in. up the vertical surfaces, and all additional layers of felt used in the roofing shall be cut off at the angle of roof deck and vertical surfaces. All layers of felt used in the roofing (if

roof deck is of concrete), shall be cut at the angle of the roof deck and vertical surfaces.

Third—Set in the angle three layers of Richardson Felt-Viskalt Saturated, cemented solidly together and to the underlying surfaces with Viskalt Compound. These three layers of felt shall be set in separately and shall extend up to the raked joint or within 1 in. of flashing built in the wall.

Fourth—Over the vertical surface of the felt, mop a uniform coating of Viskalt Compound, and fill the raked joint with Plastic Cement.

Fifth—The lower edge of the Copperclad Flashing shall be cut to correspond with the rake of the roof deck at the wall angle. The Copperclad Flashing shall be set in place while Viskalt Compound is still hot. If Copperclad Flashing is built in wall turn down over the felt reinforcement into the hot Viskalt Compound. If Copperclad Flashing is used in raked mortar joint, insert the cut edge into the joint of the brick wall, securely fasten in place with mastic wedge or wood lath set in hot Viskalt Compound or Plastic Cement, and thoroughly embed the flashing into the underlying hot Viskalt Compound. All laps and corners must be firmly secured. All end laps and laps at stepped joints shall not be less than 6 in. wide and sealed with hot Viskalt Compound or Plastic Cement.

Note: In case of concrete wall Copperclad Flashing must be built in during course of construction, or provision must be made in wall for raggle to receive the flashing.

Flashing Sawtooth, Monitor and Skylight Curbs

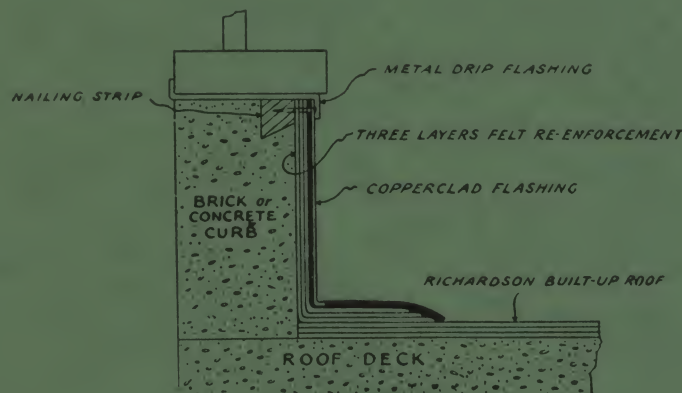
Sawtooth Curbs—The felt reinforcement shall be installed as described in the "application" of Copperclad Flashings. A full width sheet of Copperclad Flashing shall be firmly embedded and shall extend from the underside of sill down to the valley and out onto the roof at least 4 in. All laps and corners must be firmly secured. All end laps shall be at least 6 in. and sealed with Plastic Cement.

Monitor Curbs—Use same construction as for sawtooth curbs.

Skylight Curbs—The same felt reinforcement shall be used as for sawtooth or monitor curb construction. The Copperclad Flashing shall be firmly embedded into a mopping of Viskalt Compound, and shall extend over the top of curb to within 1 in. of the inner edge of curb and down to the roof deck and out on the surface at least 4 in. All laps and corners must be firmly secured. All end laps shall be at least 6 in. and sealed with Plastic Cement. All nail heads must be covered with Plastic Cement.

Flashing Endorsement

If Richardson Copperclad Flashing construction is used in conjunction with Richardson Built-up Roof Specifications, we will furnish a flashing endorsement covering that part of the roof construction for a period of ten years.





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